



ATTORNEY DOCKET NO. 600-69-CIP

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of) Examiner: Unknown
Yuan, et al.)
Serial No.: 10/656,715)
Filed: September 5, 2003)
For: Compositions and Methods Using)
Compounds Having Cytochrome)
P450RAI Inhibitory Activity Co-)
Administered with Vitamin A)

INFORMATION DISCLOSURE

STATEMENT

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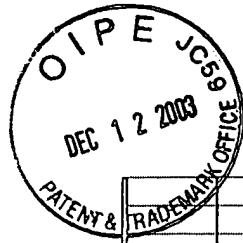
I hereby certify that this correspondence is being deposited on December 2, 2003 with the United States Postal Service First Class Mail addressed to: Mail Stop DD, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Toni Whyte
Toni Whyte
December 2, 2003
Date

Dear Sir:

Pursuant to 37 CFR Sections 1.97 and 1.98, and in fulfillment of the duty of candor set forth in 37 CFR Section 1.56, Applicant cites the following documents listed on Form 1449, submitted herewith. Copies of the references are enclosed.

	US-6,313,107	11/06/01	Vasudevan, et al.	
	US-6,303,785	10/06/01	Vasudevan, et al.	
	US-5,965,606	10/12/99	Teng, et al.	
	US-5,675,024	10/07/97	Teng, et al.	
	US-5,663,347	09/02/97	Chandraratna	
	US-5,045,551	09/03/91	Chandraratna	
	US-5,023,341	06/11/91	Chandraranta	
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	US-5,134,159	07/28/92	Chandraratna	
	US-5,346,895	09/13/94	Chandraratna	
	US-5,346,915	09/13/94	Chandraratna	
	US-5,149,705	09/22/92	Chandraratna	



	US-5,399,561	03/21/95	Chandraratna	
	US-4,980,369	12/25/90	Chandraratna	
	US-4,826,984	05/02/89	Berlin, et al.	
	US-5,037,825	08/06/91	Klaus, et al.	
	US-5,466,861	11/14/95	Dawson, et al.	
	US-6,252,090	07/26/01	Vasudevan, et al.	
	US-5,455,265	10/03/95	Chandraratna	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		WO 85/00806	02/28/85	Dawson, et al.		
		WO 95/04036	02/09/95	Boehm, et al.		
		EP 0 130,795	01/09/85	Hoffman, et al.		
		DE 3316932	11/17/83	Klaus, et al.		
		DE 3708060	09/24/87	Maignan, et al.		
		WO 93/11755	06/24/93	Evans, et al.		

	ORTIZ DE MONTELLANO, Topics in Biology- The Inactivation of Cytochrome P450RAI, Annual Reports in Medicinal Chemistry, 1984, Chapter 20, pg. 201-210.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	HANZLIK, et al., Suicidal Inactivation of Cytochrome P450RAI by Cyclopropylamines- Evidence for Cation-Radical Intermediates, J. Am. Chem. Soc. 1982, 2048-2052, v.104,n.107.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	WHITE, et al. Identification of the Human Cytochrome P450), P450RAI-2, which is predominantly expressed in the adult Cerebellum and is responsible for all trans retinoic acid metabolism, Proc. Natl. Acad. Sci. USA, June 6, 2000, 6403-6408, v.97, n.12	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	EYROLLES, et al. J. Med. Chem., 1994, 1508-1507, 37	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	DAWSON, et al., Chemistry and Biology of Synthetic Retinoids, 1990, 324-356,CRC Press, Inc.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	KUIJPERS, et al., The effects of oral liarozole on epidermal proliferation and differentiation in severe plaque psoriasis are comparable with those of acitretin, British Journal of Dermatology, 1998, 380-389, 139	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	KANG, et al., Liarozole Inhibits Human Epidermal Retinoid Acid 4-Hydroxylase Activity and Differntially Augments Human Skin Responses to Retinoic Acid and Retinol In Vivo, The Journal of Investigative Dermatology, August 1996, 183-187, v.107,n.2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	VAN WAUWE, et. al., Liarozole, an Inhibitor of Retinoic Acid Metabolism, Exerts Retinoid-Mimetic Effects in Vivo, The Journal fo Pharmacology and Experimental Therapeutics, 1992, 773-779, v.261, n.2.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	DE PORRE, et al., second Generation Retinoic Acid Metabolism Blocking Agent (Ramba) R116010: Dose Finding in Healthy Male Volunteers, University of Leuven, Belgium, pg. 30	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	VAN WAUWE, et al., Ketoconazole Inhibits the in Vitro and in Vivo Metabolism of All-Trans-Retinoic Acid, The Journal of Pharmacology and Experimental Therapeutics, 1988, 718-722, v.245, n.2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

WHITE, et al., cDNA Cloning of Human Retinoic Acid-metabolizing Enzyme (hP450RAI) Identifies a Novel Family of Cytochromes p450 (CYP26)*, The Journal of Biological Chemistry, July 25,1997, 18538-18541, v.272, n.30.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
HANZLIK, et al., Cyclopropylamines as Suicide Substrates for Cytochromes P450RAI,	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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CHEUNG, et al., Biochemical Pharmacology, 3099-3108, v.22.

REMARKS

Submission of the foregoing document is no representation that a search was made, or if made, that it was comprehensive, or that no other documents exist which may be material to the above-identified application. Moreover, the Applicant does not concede that the foregoing document is necessarily prior art to the invention. Copies of United States Patent References are not enclosed because the undersigned attorney understands that the Examiner has access to them.

Date: December 2, 03

By: Gabor L. Szekeres

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PTO/SB/08A (10-01)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/656,715
Sheet	1	of	3	Filing Date	09/05/03
				First Named Inventor	YUAN, et al.
				Art Unit	1614
				Examiner Name	Unknown
				Attorney Docket Number	600-69-CIP

U.S. PATENT DOCUMENTS					
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		US-5,965,606	10/12/99	Teng, et al.	
		US-5,675,024	10/07/97	Teng, et al.	
		US-5,663,347	09/02/97	Chandraratna	
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		US-5,023,341	06/11/91	Chandraranta	
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		DE 3708060	09/24/87	Maignan, et al.	
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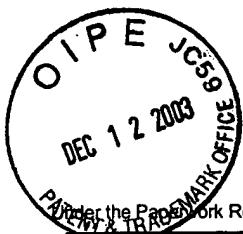
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Applicant Number	10/656715
Filing Date	09/05/03
First Named Inventor	YUAN, et al.
Group Art Unit	1614
Examiner Name	Unknown

Attorney Docket Number

600-69-CIP

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		ORTIZ DE MONTELLANO, Topics in Biology- The Inactivation of Cytochrome P450RAI, Annual Reports in Medicinal Chemistry, 1984, Chapter 20, pg. 201-210.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		HANZLIK, et al., Suicidal Inactivation of Cytochrome P450RAI by Cyclopropylamines- Evidence for Cation-Radical Intermediates, J. Am. Chem. Soc. 1982, 2048-2052, v.104,n.107.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		WHITE, et al. Identification of the Human Cytochrome P450), P450RAI-2, which is predominantly expressed in the adult Cerebellum and is responsible for all trans retinoic acid metabolism, Proc. Natl. Acad. Sci. USA, June 6, 2000, 6403-6408, v.97, n.12	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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Applicant Number: 101656515

Applicant Number 10/656,715

Filing Date 09/05/03

First Named Inventor

First Named Inventor: Gwyn Att. Unit

Group Art Unit 1614

Examiner Name

Attorney Docket Number 600-69-CIP

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